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Rabiner et al.

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(54) **SYSTEMS AND METHODS FOR INTERNAL BONE FIXATION**

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623/23.5, 23.58; 604/20, 21, 508

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See application file for complete search history.

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This patent is subject to a terminal dis-
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ABSTRACT

Internal bone fixation devices and methods for using the
devices for repairing a weakened or fractured bone are
disclosed herein. According to aspects illustrated herein,
there is provided a device for repairing a fractured bone that
includes a delivery catheter having an elongated shaft with
a proximal end, a distal end, and a longitudinal axis ther-
ebetween, the delivery catheter having an inner void for
passing at least one reinforcing material, and an inner lumen
for accepting a light pipe, wherein a distal end of the inner
lumen terminates in an optical lens; a conformable member
releasably engaging the distal end of the delivery catheter,
the conformable member moving from a deflated state to an
inflated state when the at least one reinforcing material is
delivered to the conformable member; and an adapter releas-
ably engaging the proximal end of the delivery catheter for
receiving the light pipe and the at least one reinforcing
material.

20 Claims, 17 Drawing Sheets

